



# RAPPORT D'ANALYSE D'HUILE

USURE	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
ÉTAT DU FLUIDE	<b>NORMAL</b>

Secteur

**52000 series**

Identité de la machine

**Navistar 52797**

Composant

**Moteur diesel**

Fluid

**PETRO CANADA DURON SHP 10W30 (40 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Numéro d'échant.		Client Info		<b>WC0889974</b>	WC0813068	WC0769981
Date d'échant.		Client Info		<b>08 Dec 2023</b>	14 May 2023	22 Jan 2023
Âge d la Machine	mls	Client Info		<b>370207</b>	549800	317787
Âge de l'huile	mls	Client Info		<b>28507</b>	23913	24267
Âge du filtre	mls	Client Info		<b>28507</b>	23913	24267
Huile changée		Client Info		<b>Changed</b>	Changed	Changed
Filtre changé		Client Info		<b>Changed</b>	Changed	Changed
Statut de l'échant.				<b>NORMAL</b>	NORMAL	NORMAL

## USURE

All component wear rates are normal.

Fer	ppm	ASTM D5185(m)	>90	<b>48</b>	33	39
Chrome	ppm	ASTM D5185(m)	>20	<b>2</b>	2	4
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titane	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Argent	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
Aluminium	ppm	ASTM D5185(m)	>20	<b>6</b>	6	9
Plomb	ppm	ASTM D5185(m)	>40	<b>8</b>	2	2
Cuivre	ppm	ASTM D5185(m)	>330	<b>2</b>	1	<1
Étain	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

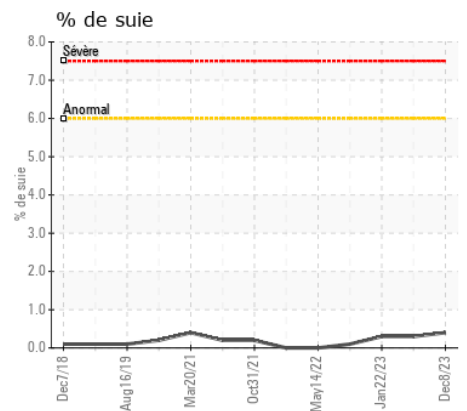
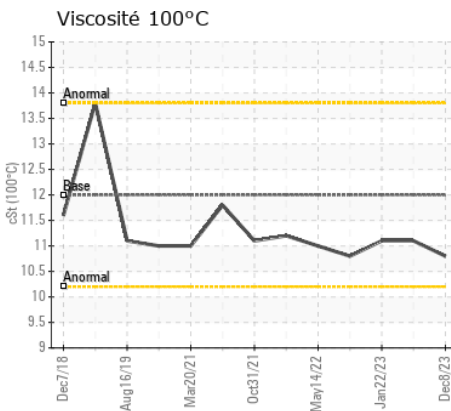
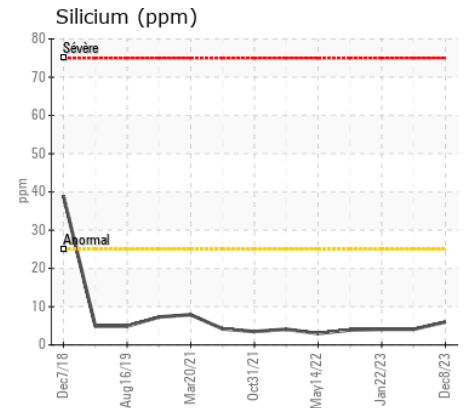
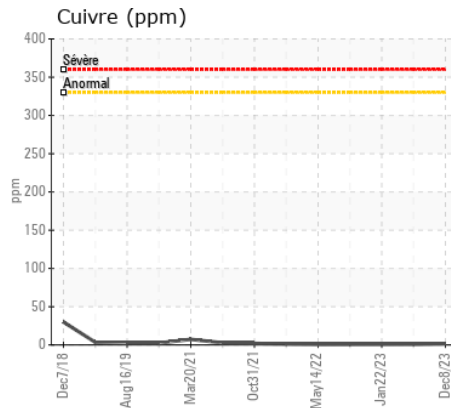
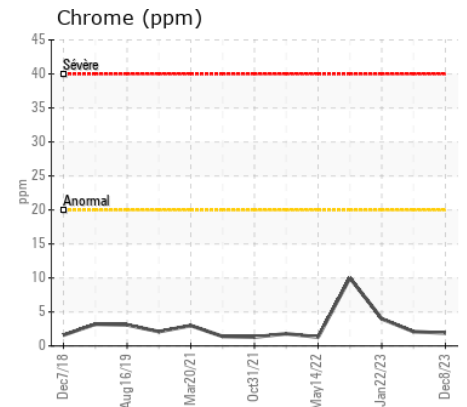
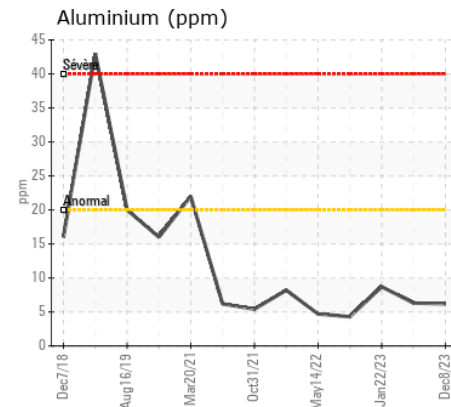
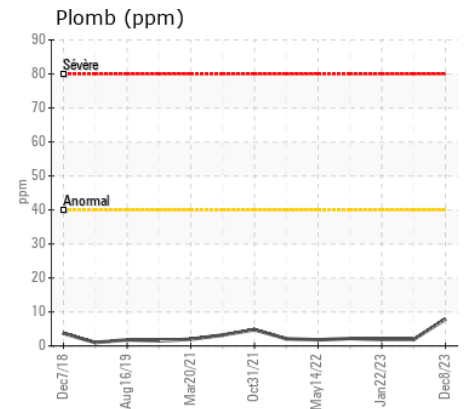
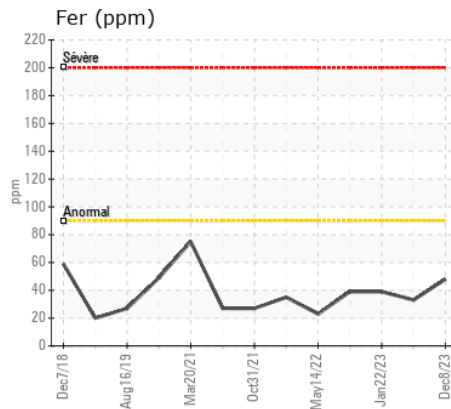
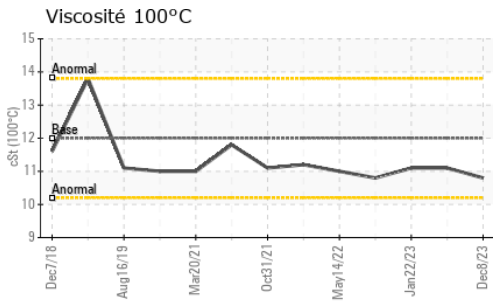
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicium	ppm	ASTM D5185(m)	>25	<b>6</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	7	12
Essence		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
L'eau		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
% de suie	%	ASTM D7844*	>6	<b>0.4</b>	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.4</b>	9.9	10.3
Sulfatation	Abs/.1mm	ASTM D7415*	>30	<b>23.0</b>	20.5	21.9
Eau émulsifiée	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## ÉTAT DU FLUIDE

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	2
Bore	ppm	ASTM D5185(m)	2	<b>5</b>	2	4
Baryum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Molybdène	ppm	ASTM D5185(m)	50	<b>56</b>	61	60
Manganèse	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnésium	ppm	ASTM D5185(m)	950	<b>874</b>	992	961
Calcium	ppm	ASTM D5185(m)	1050	<b>1202</b>	1128	1140
Phosphore	ppm	ASTM D5185(m)	995	<b>954</b>	1103	1079
Zinc	ppm	ASTM D5185(m)	1180	<b>1186</b>	1224	1221
Soufre	ppm	ASTM D5185(m)	2600	<b>2499</b>	2631	2632
Oxydation	Abs/.1mm	ASTM D7414*	>25	<b>20.1</b>	17.2	17.3
Visc 100°C	cSt	ASTM D7279(m)	12.00	<b>10.8</b>	11.1	11.1



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : WC0889974  
**N° de laboratoire** : 02604051  
**Numéro unique** : 5697136  
**Analyse** : MOB 1

**Reçu** : 19 Dec 2023  
**Diagnostiqueur** : Wes Davis

**MANITOU LIN TRANSPORT**  
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Pour discuter ce rapport, contacter le service à la clientèle au 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.